CA - PMM

Project Name: Culvert Inventory Database Improvement Project

OCIO Project #:

Department: Department of Transportation (Caltrans)

Revision Date: 10/12/10

Concept Statement

Description

Brief description of the proposed project:

Upgrade existing Access database used for culvert inventory to add geospatial functionality.

Need Statement

High Level Capabilities Needed:

District 2 needs the database to have the capability to store spatial data collected in the field using GPS and GIS.

What is Driving This Need?

Transition to the new statewide data dictionary as well as too much staff time required to manage and update the current database.

Risk to the Organization if This Work is Not Done:

Non-compliance with the statewide standard for a data dictionary as well as too much staff time required for post processing and updating Web applications.

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Benefit Statement

Intangible Benefits

Process Improvements (describe the nature of the process improvement):
Reduction in personnel hours spent post processing and improvement in data quality.

Other Intangible Benefits:
Eliminates time spent converting data into a GIS format.

Tangible Benefits

Revenue Generation (describe how revenue will be generated):
TBD.

Cost Savings (describe how cost will be reduced):
TBD.

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Cost Avoidance (describe the cost and how avoided):
TBD.

Risk Avoidance (describe the risk and how avoided):
TBD.

Improved Services:
TBD.

Consistency

"No" Responses →		Rationale	Action Required
Enterprise Architecture	Yes		
Business Plan	Yes		
Strategic Plan	Yes		

Impact to Other Entities

Nature of Impact to Other Entities

Entity:
Describe the nature of the impact:

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None.

Entity:

Describe the nature of the impact:

Entity:

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Entity:

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Solution Alternatives

Alternative 1:

Research will be done to determine the best solution to upgrade existing Access database to a database with geospatial functionality.

Technical Considerations for Alternative 1:

ROM Cost:	$50,001	to	$500,000	**Note: high end of range must not exceed 200% of low end of range**

Alternative 2:

Technical Considerations for Alternative 2:

ROM Cost:	to	**Note: high end of range must not exceed 200% of low end of range**

Alternative 3:

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Technical Considerations for Alternative 3:		
ROM Cost:	to	**Note: high end of range must not exceed 200% of low end of range**

Recommendation

Comparison:

Alternative 1	ROM Cost			Risk
	$50,001	-	$500,000	
Alternative 2	**ROM Cost**			**Risk**
	$0	-	$0	
Alternative 3	**ROM Cost**			**Risk**
	$0	-	$0	

Conclusions:

1	
2	
3	
4	

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Recommendation:

Concept Approach *(if known)*

System Complexity:				System Business Hours: *(e.g., 24x7, 9am-5pm) :*	To Be Determined in Feasibility Study	
Architecture	☐ Mainframe	☐ Client Server	☐ Web Based		Num. of New Databases:	1
Technology	☐ New	☑ New to Staff	☐ In-House Experience		Interfaces:	
Implementation	☐ Central Site	☐ Phased Roll-out			Num. of Sites:	
M & O Support	☐ Contractor	☐ Data Center	☐ Project	☐ Returned to Sponsor		
Procurement Approach: *(consult with OSI Procurement Center)*					Number of Procurements:	
Open Procurement?		Delegated Procurement? Yes.				
Scope of Contract	☐ Development	☐ Implementation	☐ M & O	☐ Other:		
Anticipated Length of Contract:	Years /	extensions for	years			